Rune Barnkob

List of Publications by Year
in descending order

18 papers	1,655 citations	687363 13 h-index	839539 18 g-index
18 all docs	18 docs citations	18 times ranked	1208 citing authors

#	Article	IF	Citations
1	A numerical study of microparticle acoustophoresis driven by acoustic radiation forces and streaming-induced drag forces. Lab on A Chip, 2012, 12, 4617.	6.0	461
2	Measuring the local pressure amplitude in microchannel acoustophoresis. Lab on A Chip, 2010, 10, 563.	6.0	229
3	Acoustic radiation- and streaming-induced microparticle velocities determined by microparticle image velocimetry in an ultrasound symmetry plane. Physical Review E, 2012, 86, 056307.	2.1	194
4	Numerical study of acoustophoretic motion of particles in a PDMS microchannel driven by surface acoustic waves. Lab on A Chip, 2015, 15, 2700-2709.	6.0	154
5	Automated and temperature-controlled micro-PIV measurements enabling long-term-stable microchannel acoustophoresis characterization. Lab on A Chip, 2011, 11, 4152.	6.0	137
6	Ultrasound-induced acoustophoretic motion of microparticles in three dimensions. Physical Review E, 2013, 88, 023006.	2.1	132
7	General defocusing particle tracking. Lab on A Chip, 2015, 15, 3556-3560.	6.0	91
8	High-throughput, temperature-controlled microchannel acoustophoresis device made with rapid prototyping. Journal of Micromechanics and Microengineering, 2012, 22, 075017.	2.6	62
9	Measuring acoustic energy density in microchannel acoustophoresis using a simple and rapid light-intensity method. Lab on A Chip, 2012, 12, 2337.	6.0	47
10	Acoustically Driven Fluid and Particle Motion in Confined and Leaky Systems. Physical Review Applied, 2018, 9, .	3.8	38
11	General defocusing particle tracking: fundamentals and uncertainty assessment. Experiments in Fluids, 2020, 61, 1.	2.4	33
12	A fast and robust algorithm for general defocusing particle tracking. Measurement Science and Technology, 2020, 32, 014001.	2.6	18
13	Defocus particle tracking: a comparison of methods based on model functions, cross-correlation, and neural networks. Measurement Science and Technology, 2021, 32, 094011.	2.6	16
14	Acoustofluidics: theory and simulation of radiation forces at ultrasound resonances in microfluidic devices. Proceedings of Meetings on Acoustics, 2009, , .	0.3	12
15	Tunable-angle wedge transducer for improved acoustophoretic control in a microfluidic chip. Journal of Micromechanics and Microengineering, 2013, 23, 105002.	2.6	10
16	<i>DefocusTracker</i>: A Modular Toolbox for Defocusing-based, Single-Camera, 3D Particle Tracking. Journal of Open Research Software, 2021, 9, 22.	5.9	10
17	Optical stretching on chip with acoustophoretic prefocusing. Proceedings of SPIE, 2012, , .	0.8	7
18	Rapid measurement of the local pressure amplitude in microchannel acoustophoresis using motile cells. Journal of the Acoustical Society of America, 2021, 150, 1565-1576.	1.1	4